

- 11 -

Patent claims

1. A circuit arrangement having a mains connection (NA), a mains switch (S1) which has two switching contacts (1, 2), a demagnetization coil (ES) and a switch-mode power supply (I), which has a transformer (TR) with a primary winding (W1), a switching transistor (T1) and a driver circuit (DC) for producing a control voltage (DS) for the switching transistor (T1), characterized in that a first switching contact (1) is arranged between the mains connection (NA) and the demagnetization coil, and in that the second switching contact (2) is coupled to a supply (VCC) or a control voltage for the driver circuit (DC), in order to switch off the control voltage (DS) for the switching transistor (T1).
2. The circuit arrangement as claimed in claim 1, characterized in that the transformer (TR) has an auxiliary winding (W2) for producing a supply voltage (VCC) for the driver circuit (DC), and in that the second switching contact (2) is arranged between the auxiliary winding (W2) and the driver circuit (DC), in order to switch off the supply voltage (VCC).
3. The circuit arrangement as claimed in claim 2, characterized in that a diode (D1) and a capacitor (C2) are arranged at one connection (A) of the auxiliary winding (W2) in order to produce a rectified and smoothed supply voltage (VCC), and in that the second switching contact (2) is arranged between the capacitor (C2) and the driver circuit (DC).
4. The circuit arrangement as claimed in claim 1, 2 or 3, characterized in that the switch-mode power supply also has a rectifier means (BR) for rectifying the mains voltage, and an energy-storage capacitor (C1)

- 12 -

between the rectifier means (BR) and the primary winding (W1).

5. The circuit arrangement as claimed in one of the preceding claims, characterized in that the circuit arrangement has a power factor coil (NS) for power factor correction.

10 6. The circuit arrangement as claimed in claim 5, characterized in that the power factor coil (NS) is arranged between the mains connection (NA) and the energy-storage capacitor (C1) in particular upstream of the rectifier means (BR).

15 7. A circuit arrangement having a demagnetization coil (ES), a mains switch (S1) with two switching contacts (1, 2) and a switch-mode power supply (I), which has a driver circuit (DC) for producing a control voltage (DS) for a switching transistor (T1),
20 characterized in that a first switching contact (1) is arranged for switching the demagnetization coil (ES) on and off, and in that the second switching contact (2) is coupled to a supply (VCC) or a control voltage for the driver circuit (DC) in order to switch off the
25 switch-mode power supply (I).

8. A circuit arrangement having a mains switch (S1), which has two switching contacts (1, 2), a switch-mode power demagnetization coil (ES) and a switch-mode power supply (I) with a driver circuit (DC), characterized in that a first switching contact (1) is used for switching the demagnetization coil (ES) on and off, and in that the second switching contact (2) is used for switching the driver circuit (DC) for the switch-mode power supply (I) on and off.
35

- 13 -

9. An appliance, characterized in that said appliance has a circuit arrangement as claimed in one of the preceding claims.

5 10. The appliance as claimed in claim 9, characterized in that the appliance has a picture tube, on which the demagnetization coil (ES) is mounted.